



Docket No. 21407 US (C038435/0185010)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

<i>In re</i> Application of:	)	
Tatsuo HOSHINO <i>et al.</i>	)	Examiner: Not yet assigned
Serial No.: 10/528,872	)	Art Unit: Not yet assigned
Filed: March 23, 2005	)	
For: SQS GENE	)	

New York, NY  
June 22, 2005

**INFORMATION DISCLOSURE STATEMENT**

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Applicants wish to make of record the following documents (clean copies and a Form PTO-1449 listing the documents are enclosed). The following documents were cited in the International Search Report (mailed March 15, 2004) or in the International Preliminary Examination Report (mailed January 20, 2005) in the International application corresponding to the above-captioned case.

### U.S. PATENT DOCUMENTS

	<u>Document No.</u>	<u>Date</u>
A1	5,182,208	1/26/1993

### FOREIGN PATENT DOCUMENTS

	<u>Document No.</u>	<u>Date</u>	<u>Country</u>
B1	WO 96/09393	3/28/1996	PCT
B2	WO 00/01650	1/13/2000	PCT

### OTHER DOCUMENTS

- C1 Misawa and Shimada, "Metabolic Engineering For the Production of Carotenoids in Non-Carotenogenic Bacteria and Yeasts," Journal of Biotechnology, vol. 59, pp. 169-181 (1998).
- C2 Robinson, G.W. et al., "Conservation Between Human and Fungal Squalene Synthetases: Similarities in Structure, Function, and Regulation," Molecular and Cellular Biology, vol. 13, no. 5, pp. 2706-2717 (1993).
- C3 Shimada, H. et al., "Increased Carotenoid Production by the Food Yeast *Candida Utilis* through Metabolic Engineering of the Isoprenoid Pathway," Applied and Environmental Microbiology, vol. 64, no. 7, pp. 2676-2680 (1998).
- C4 Corran, A.J., "Squalene Synthase in Plant Pathogenic Fungi," Genbank Accession number: X99718, 19960915.
- C5 Kikuti, Y., et al., "Physical Mapping 220 kb Centromeric of the Human MHC and DNA Sequence Analysis of the 43-kb Segment Including the RING1, HKE6, and HKE4 Genes," Genbank Accession number: DB84401, 19991120.

The Examiner's independent consideration of all of these documents and their relevance before issuance of the first official action is respectfully requested. The Examiner is also requested to initial and return a copy of the accompanying form PTO-1449 to evidence such consideration.

Copies of the International Search Report and International Preliminary Examination Report are included herewith. The documents cited in these reports are identified herein and copies of documents other than U.S. Patent Documents are provided. See MPEP § 609(III)(A)(2)(A) (8<sup>th</sup> Ed., Rev. 2, May 2004, p. 600-128); See also 1276 OG 55 (August 5, 2003) (Waiving the requirement under Rule 98(a)(2)(1) to provide a copy of each cited U.S. patent document for any application filed after June 30, 2003.).

This Information Disclosure Statement is being filed in accordance with the provisions under 37 C.F.R. §1.97(b)(2), within three months of the date of entry of the national stage of the international application. Accordingly, no fee is believed to be due. If, however, a fee is due, please charge the same to Deposit Account No. 02-4467. A duplicate copy of this sheet is enclosed.

If the Examiner has any questions regarding this paper, please contact the undersigned attorney.

Respectfully submitted,

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I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on June 22, 2005.

Charles M. Avigliano  
Charles M. Avigliano, Reg. No. 52,578

Form PTO-1449 (Rev. )  <b>INFORMATION DISCLOSURE STATEMENT</b> <b>BY APPLICANT</b>  (Use several sheets if necessary)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE JUN. 27 2005		ATTY. DOCKET NO.:  21407 US C038435/0185010	INTERNATIONAL APPLN. NO.:  PCT/EP2003/010573
	APPLICANT(S):  Tatsuo HOSHINO <i>et al.</i>			
	INTERNATIONAL FILING DATE :  23 September 2003		GROUP:  Not Yet Assigned	

## U.S. PATENT DOCUMENTS

Examiner Initial	Cite No.	U.S. Patent Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	A1	5,182,208	1/26/1993	Johnson <i>et al.</i>			

## FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
	B1	WO 96/09393	3/28/1996	PCT				
	B2	WO 00/01650	1/13/2000	PCT				

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

C1	Misawa and Shimada, "Metabolic Engineering For the Production of Carotenoids in Non-Carotenogenic Bacteria and Yeasts," <u>Journal of Biotechnology</u> , vol. 59, pp. 169-181 (1998).
C2	Robinson, G.W. <i>et al.</i> , "Conservation Between Human and Fungal Squalene Synthetases: Similarities in Structure, Function, and Regulation," <u>Molecular and Cellular Biology</u> , vol. 13, no. 5, pp. 2706-2717 (1993).
C3	Shimada, H. <i>et al.</i> , "Increased Carotenoid Production by the Food Yeast <i>Candida Utilis</i> through Metabolic Engineering of the Isoprenoid Pathway," <u>Applied and Environmental Microbiology</u> , vol. 64, no. 7, pp. 2676-2680 (1998).
C4	Corran, A.J., "Squalene Synthase in Plant Pathogenic Fungi," Genbank Accession number: X99718, 19960915.
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EXAMINER	
DATE CONSIDERED	
Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	